

**IN THE UNITED STATES PATENT
AND TRADEMARK OFFICE**

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ROOF TOP FOR VEHICLES

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1 **I. TITLE: " ROOF TOP FOR VEHICLES "**

2
3 **II. BACKGROUND OF THE INVENTION**

4
5 **1. Field of the Invention.**

6
7 The present invention relates to vehicle rooftops, and more
8 particularly, to removable rooftops for jeep-type vehicles.

9
10 **2. Description of the Related Art.**

11
12 Many designs for rooftops of jeep-type vehicles have been designed
13 in the past. Some of these designs have included bikini-type soft tops and
14 full hard tops. None of them, however, includes the characteristics brought
15 forth in the instant invention, namely a removable, half cut, hard rooftop
16 for jeep-type vehicles. The instant invention is lightweight, allowing a
17 single person to mount or remove the rooftop. Additionally, the rooftop
18 comprises a support wall to allow for a sunroof to be installed into the
19 rooftop if desired.

20
21 There are no rooftops for jeep-type vehicles to the best of applicant's
22 knowledge that are lightweight, removable, half cut, and hard for jeep-type
23 vehicles that also allow for the installation of a sunroof.

III. SUMMARY OF THE INVENTION

A rooftop used in combination with jeep-type vehicles, comprising a substantially rectangular top wall having first, second, third, and fourth ends. The first and second ends are parallel and equally spaced apart from each other by the third and fourth ends. The first end is removably secured to a windshield frame of a jeep-type vehicle. The substantially rectangular top wall also has first and second elongated wedges.

First and second side walls extend substantially perpendicularly from the third and fourth ends to form a rooftop for the jeep-type vehicle. The first and second side walls terminate at first and second bases respectfully and mount upon the jeep-type vehicle. The rooftop forms a driver and front passenger cabin for the jeep-type vehicle.

The first and second elongated wedges extend from the first end to the first and second bases. The first and second elongated wedges have cooperative characteristics to receive door window frames of the jeep-type vehicle when the door window frames are in a closed position, with the jeep doors closed.

The substantially rectangular top wall has a reinforced area defined as a support wall for structural integrity and the substantially rectangular top wall has a sunroof assembly built within the support wall. The sunroof assembly is at a first predetermined distance from the first end and extends towards the second end without reaching the second end.

1 The rooftop is filled with a filler material to reduce ultra violet
2 radiation and reduce exterior noise within the driver and front passenger
3 cabin of the jeep-type vehicle.

4
5 The rooftop is made of a hard, lightweight, weatherproof plastic
6 material.

7
8 It is therefore one of the main objects of the present invention to
9 provide a removable rooftop that is half cut and is structurally designed to
10 allow for the installation of a sunroof.

11
12 It is another object of this invention to provide a hard removable
13 rooftop that may be installed onto a jeep-type vehicle, without making
14 modifications to the jeep-type vehicle.

15
16 It is another object of the present invention to provide a removable
17 rooftop that is a hard type top.

18
19 It is another object of the present invention to provide a removable
20 rooftop that is lightweight and may be mounted onto a jeep-type vehicle
21 without aid or assistance.

22
23 It is still another object of the present invention to provide a
24 removable rooftop that reduces interior cabin noise for the driver and
25 passengers.

1 It is yet another object of the present invention to provide a
2 removable rooftop that provides protection from weather elements wind,
3 such rain, hail, sleet, and snow.
4

5 It is still another object of the present invention to provide a
6 removable rooftop that provides protection from UV radiation.
7

8 It is yet another object of the present invention to provide a
9 removable rooftop that protects the driver and passengers from debris
10 while driving.
11

12 It is yet another object of this invention to provide such a device that
13 is inexpensive to manufacture and maintain while retaining its
14 effectiveness.
15

16 Further objects of the invention will be brought out in the following
17 part of the specification, wherein detailed description is for the purpose of
18 fully disclosing the invention without placing limitations thereon.
19

20 **IV. BRIEF DESCRIPTION OF THE DRAWINGS** 21

22 With the above and other related objects in view, the invention
23 consists in the details of construction and combination of parts as will be
24 more fully understood from the following description, when read in
25 conjunction with the accompanying drawings in which:
26

27 **Figure 1** represents a perspective view of the instant invention over a
28 jeep-type vehicle.

1
2 **Figure 2** shows a side view of the instant invention mounted onto the
3 jeep-type vehicle.

4
5 **Figure 3** illustrates a top view of the instant invention.

6
7 **Figure 4** is a representation of a front view of the instant invention.

8
9 **Figure 5** illustrates a bottom view of the instant invention.

10
11 **Figure 6** shows a side view of the instant invention.

12
13 **Figure 7** shows another side view of the instant invention.

14
15 **Figure 8** shows a close up view of the interior side of a side wall and
16 leg bolted to the base of the jeep-type vehicle.

17
18 **Figure 9** shows a corner of the interior side of the top wall secured
19 onto ridge 102.

20 21 **V. DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT**

22
23 Referring now to the drawings, where the present invention is
24 generally referred to with numeral 10, it can be observed that it basically
25 includes top wall 20 and side walls 28.

26
27 As seen in figure 1, instant invention 10 is in position to be mounted
28 onto jeep-type vehicle 100. Instant invention 10 comprises top wall 20. Top

1 wall 20 has support wall 22. In the preferred embodiment, support wall 22
2 is sturdy and of thickness to have sunroof assembly 23 mounted within.
3 Sunroof assembly may be centrally positioned over the driver and front
4 passenger side of jeep-type vehicle 100. Extending approximately
5 perpendicularly from top wall 20, are side walls 28. Each respective side
6 wall 28 terminates at its base 32 of leg 30. Leg 30 is shaped to fit flush
7 against base 104 of jeep-type vehicle 100 when mounted upon it.
8 Extending from front edge 40 of top wall 20 to base 32 of leg 30 is wedge
9 38. Wedge 38 is shaped to complement the shape of door 106 when door
10 106 is shut closed, as seen in figure 2. In the closed position, the door
11 window frame of door 106, forms a seal with wedge 38. This seal reduces
12 interior cabin noise for the driver and passengers; provides protection from
13 weather elements wind, such rain, hail, sleet, and snow; and helps protect
14 the driver and passengers from debris while driving.

15
16 Jeep-type vehicle 100 comprises ridge 102 of a windshield assembly,
17 doors 106, and base 104. Typically mounted onto jeep-type vehicle 100 is
18 roll bar assembly 110. Roll bar assembly 110 comprises sidebars 112
19 parallel and equally spaced apart from each other by support bar 114 and
20 ridge 102. Support bar 114 extends generally perpendicularly defining mid
21 bars 118. Further stabilizing roll bar assembly 110 onto jeep-type vehicle
22 100, are rear bars 116, which mount directly thereon.

23
24 Seen in figure 2 is a side view of instant invention 10 mounted onto
25 jeep-type vehicle 100. Instant invention 10 is designed to fit onto jeep-type
26 vehicle 100 without making modifications to jeep-type vehicle 100.
27 Meaning, instant invention 10 may be installed onto a jeep-type vehicle as
28 the vehicle is delivered from its factory. Once mounted and secured onto

1 jeep-type vehicle 100, instant invention 10 is strong, stable and sturdy,
2 essentially a part of the jeep-type vehicle. Front edge 40 secures onto ridge
3 102, seen in figure 1, and base 32 secures onto base 104 of jeep-type vehicle
4 100. In the preferred embodiment, jeep-type vehicle 100 is a "JEEP" model
5 "CJ-7", or WRANGLER" up to the year 1998 of DaimlerChrysler.

6
7 As seen in figures 3 and 5, instant invention 10 comprises sunroof
8 assembly 23, which is built into support wall 22 in the preferred
9 embodiment. As part of top wall 20, support wall 22 is structurally
10 designed with additional layering to allow for the installation of sunroof
11 assembly 23, without compromising the necessary rigid qualities of a
12 rooftop.

13
14 As seen in figure 4, support wall 22 defines a thicker section of top
15 wall 20 for sufficient room of sunroof assembly 23, seen in figure 3.
16 Extending approximately perpendicularly from top wall 20 are side walls
17 28. Side walls 28 terminate at bases 32. Each base 32 comprises a flange 34.

18
19 As seen in figures 6 and 7, wedges 38 are shaped to complement the
20 shape of door 106 when door 106 is shut closed, as seen in figure 2.

21
22 As seen in figure 8, side wall 28 and leg 30 mount on the exterior side
23 of rear bar 116 and mid bar 118, enabling flange 34 to mount flush onto
24 base 104. In the preferred embodiment, bolts 36 may be utilized to secure
25 flange 34. Bolts 36 may be replaced with other forms of attachment,
26 including but not limited to, rivets, welding, screws, and quick-release
27 fasteners.

1 As seen in figure 9, bracket **24**, extending from the interior side of top
2 wall **20** may be used to secure instant invention **10** to ridge **102**. In the
3 preferred embodiment, bolts **26** may be utilized to secure bracket **24**. Bolts
4 **26** may be replaced with other forms of attachment, including but not
5 limited to, rivets, welding, screws, and quick-release fasteners.

6
7 In the preferred embodiment, instant invention **10** may be
8 manufactured from hard weatherproof plastic materials that are
9 lightweight yet strong. Various plastic polymers and composites may be
10 utilized for manufacturing purposes. The plastic materials are strong
11 enough to provide protection from weather elements such wind, rain, hail,
12 sleet, and snow as an example. In addition, the plastic materials are strong
13 enough to provide protection for the driver and passengers from debris
14 while driving.

15
16 The instant invention, defined as a removable rooftop, is lightweight
17 and may be mounted onto jeep-type vehicle **100** by a single person without
18 aid or assistance in most cases. Furthermore, the removable rooftop may
19 be installed onto a jeep-type vehicle without making modifications to the
20 jeep-type vehicle.

21
22 In between the exterior and interior walls of top wall **20**, support wall
23 **22**, side walls **28**, and legs **30**, instant invention **10** may comprise foam or
24 other filler material to strengthen instant invention **10**. In the preferred
25 embodiment, the foam or filler material provides protection from UV
26 radiation and reduces interior cabin noise for the driver and passengers.

1 The foregoing description conveys the best understanding of the
2 objectives and advantages of the present invention. Different embodiments
3 may be made of the inventive concept of this invention. It is to be
4 understood that all matter disclosed herein is to be interpreted merely as
5 illustrative, and not in a limiting sense.